

TABLE 32

**Preliminary federal obligations for applied research, by agency and performer: FY 2022**

(Dollars in thousands)

Agency	Total	Intramural		Extramural				
		Federal agencies <sup>a</sup>	FFRDCs	United States and U.S. territories				Non-U.S. performers
				Businesses	Higher education <sup>b</sup>	Nonprofit organizations	State and local governments	
All agencies	44,673,778	11,819,033	4,156,851	6,970,427	15,867,317	5,282,901	307,486	269,762
Departments								
Department of Agriculture	1,558,776	851,322	0	15,712	628,281	53,143	7,938	2,380
Agricultural Marketing Service	7,484	4,050	0	0	2,659	302	350	123
Agricultural Research Service	639,600	576,582	0	0	57,018	4,032	67	1,902
Economic Research Service	90,389	79,833	0	*	8,247	2,263	0	0
Forest Service	194,781	174,166	0	298	10,675	3,934	5,352	355
National Agricultural Statistics Service	6,327	5,796	0	0	58	473	0	0
National Institute of Food and Agriculture	619,681	10,597	0	15,368	549,409	42,138	2,169	0
Natural Resources Conservation Service	514	300	0	0	214	0	0	0
Department of Commerce	1,473,125	1,020,585	19,132	64,256	346,873	16,490	5,014	774
Census Bureau	110,367	110,367	0	0	0	0	0	0
National Institute of Standards and Technology	530,008	449,155	19,098	29,496	27,109	4,382	*	759
National Oceanic and Atmospheric Administration	825,550	453,864	*	34,760	319,764	12,108	5,005	*
National Telecommunications and Information Administration	7,200	7,200	0	0	0	0	0	0
Department of Defense	7,400,607	2,293,616	982,322	2,627,817	1,147,716	308,105	3,570	37,461
Defense Advanced Research Projects Agency	1,483,950	88,664	52,696	873,651	333,873	115,322	333	19,410
Defense Health Agency	158,831	43,369	2,285	26,698	42,371	42,629	0	1,479
Department of the Air Force	1,697,363	598,802	83,818	801,858	178,209	30,592	1,687	2,397
Department of the Army	1,502,296	784,998	21,647	458,396	197,423	36,044	0	3,788
Department of the Navy	1,229,568	533,681	18,401	255,410	346,130	64,145	1,550	10,251
Other defense agencies	1,328,599	244,102	803,473	211,805	49,709	19,373	0	137
Department of Education	260,178	0	0	18,121	124,809	89,746	27,503	0
Department of Energy	4,523,208	1,021,083	2,571,986	556,366	349,796	16,311	6,966	700
Advanced Research Projects Agency—Energy	225,000	0	25,267	116,803	76,327	6,603	0	0
Electricity Delivery and Energy Reliability	59,361	1,379	42,582	6,792	4,212	4,210	187	0
Energy Efficiency and Renewable Energy	677,946	0	291,517	210,163	169,487	0	6,779	0
Environmental Management	11,550	0	9,702	0	1,848	0	0	0
Fossil Energy	736,176	635,008	45,517	0	55,405	0	0	247
National Nuclear Security Administration	2,403,869	311,668	1,908,164	179,793	4,245	0	0	0
Defense Programs	2,257,778	309,723	1,773,810	170,050	4,195	0	0	0
Office of Defense Nuclear Nonproliferation	146,092	1,945	134,354	9,743	50	0	0	0

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Nuclear Energy	330,824	1,135	242,650	42,814	38,273	5,499	0	453
Office of Cybersecurity, Energy Security, and Emergency Response	78,481	71,893	6,588	0	0	0	0	0
Department of Health and Human Services	21,258,821	3,693,450	349,454	1,478,565	12,044,635	3,433,387	81,753	177,577
Administration for Children and Families	4,265	915	0	0	1,800	1,550	0	0
Administration for Community Living	110,863	0	0	3,299	87,531	19,564	468	0
Agency for Healthcare Research and Quality	314,345	54,070	0	131,883	98,720	29,580	92	0
Agency for Toxic Substances and Disease Registry	10,935	0	0	0	6,686	2,500	1,250	500
Centers for Disease Control and Prevention	552,086	64,844	0	122,676	208,952	93,820	18,984	42,810
Food and Drug Administration	669,007	516,699	0	13,991	79,147	50,257	2,601	6,311
Health Resources and Services Administration	34,790	1,824	0	0	31,903	1,063	0	0
National Institutes of Health	19,545,031	3,051,898	349,454	1,201,416	11,527,395	3,228,553	58,359	127,956
Office of the Secretary of Health and Human Services	17,500	3,200	0	5,300	2,500	6,500	0	0
Office of the Assistant Secretary for Planning and Evaluation	17,500	3,200	0	5,300	2,500	6,500	0	0
Department of Homeland Security	248,069	99,526	17,959	113,143	13,485	3,232	0	723
Coast Guard	2,243	0	0	2,243	0	0	0	0
Countering Weapons of Mass Destruction Office	24,324	3,671	892	12,346	6,692	0	0	723
Cybersecurity and Infrastructure Security Agency	3,502	1,790	0	0	0	1,712	0	0
Science and Technology Directorate	216,000	92,065	17,068	98,554	6,793	1,520	0	0
Transportation Security Administration	2,000	2,000	0	0	0	0	0	0
Department of the Interior	817,025	704,392	150	15,448	70,445	5,716	20,221	653
Bureau of Indian Affairs	4,000	0	0	0	0	0	4,000	0
Bureau of Land Management	8,579	3,057	0	97	4,128	1,179	118	0
Bureau of Ocean Energy Management	67,918	50,852	0	5,837	5,458	3,397	1,821	553
Bureau of Reclamation	21,500	15,500	0	4,000	1,400	0	500	100
Bureau of Safety and Environmental Enforcement	14,018	5,692	150	4,676	3,500	0	0	0
Fish and Wildlife Service	32,650	32,650	0	0	0	0	0	0
Geological Survey	641,138	583,030	0	838	42,348	1,140	13,782	0

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National Park Service	27,222	13,611	0	0	13,611	0	0	0
Department of Justice	74,032	5,324	0	9,188	31,677	27,413	430	0
Bureau of Prisons	*	*	0	0	0	0	0	0
Federal Bureau of Investigation	5,396	0	0	5,396	0	0	0	0
Office of Justice Programs	68,634	5,322	0	3,792	31,677	27,413	430	0
Department of Labor	3,803	2,831	0	972	0	0	0	0
Employee Benefits Security Administration	1,569	597	0	972	0	0	0	0
Occupational Safety and Health Administration	2,234	2,234	0	0	0	0	0	0
Department of State	40,000	40,000	0	0	0	0	0	0
Department of Transportation	803,325	152,201	7,579	273,550	177,167	47,409	143,040	2,379
Federal Aviation Administration	271,685	66,590	3,797	111,033	69,800	18,085	0	2,379
Federal Highway Administration	361,044	54,573	468	95,793	83,769	10,401	116,040	0
Federal Motor Carrier Safety Administration	14,100	5,200	1,500	3,600	3,700	100	0	0
Federal Railroad Administration	42,112	9,178	1,815	12,574	7,898	10,648	0	0
Federal Transit Administration	33,000	0	0	0	1,000	5,000	27,000	0
National Highway Traffic Safety Administration	50,000	0	0	42,550	7,000	450	0	0
Office of the Secretary of Transportation	15,022	14,797	0	0	0	225	0	0
Pipeline and Hazardous Materials Safety Administration	16,363	1,863	0	8,000	4,000	2,500	0	0
Department of the Treasury	44,134	2,503	6,153	18,778	0	0	0	16,700
Bureau of Engraving and Printing	44,081	2,500	6,103	18,778	0	0	0	16,700
Mint	53	*	50	0	0	0	0	0
Department of Veterans Affairs	1,002,408	1,002,408	0	0	0	0	0	0
Other agencies								
Administrative Office of the U.S. Courts	1,443	0	1,443	0	0	0	0	0
Agency for Global Media	7,884	0	0	7,884	0	0	0	0
Agency for International Development	51,211	5,985	0	12,961	2,975	15,840	0	13,450
Appalachian Regional Commission	122	0	0	0	*	108	0	0
Consumer Product Safety Commission	440	440	0	0	0	0	0	0
Environmental Protection Agency	406,371	230,160	0	118,617	42,496	15,099	0	0
Federal Trade Commission	8,571	8,571	0	0	0	0	0	0
Library of Congress	493	493	0	0	0	0	0	0

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National Aeronautics and Space Administration	3,009,641	595,954	175,756	1,349,764	187,808	685,928	349	14,081
National Science Foundation	986,305	306	0	219,143	685,498	77,195	3,743	420
Nuclear Regulatory Commission	78,147	36,899	24,918	6,821	6,344	703	0	2,462
Patient-Centered Outcomes Research Trust Fund	481,465	0	0	0	0	481,465	0	0
Postal Service	15,702	0	0	15,702	0	0	0	0
RESTORE Act Centers of Excellence Research Grants Program	6,960	0	0	0	0	0	6,960	0
Social Security Administration	98,560	50,984	0	37,126	7,300	3,150	0	0
Tennessee Valley Authority	12,952	0	0	10,491	0	2,461	0	0

\* = amount greater than \$0 but less than \$50,000.

FFRDC = federally funded research and development center.

<sup>a</sup> Federal agencies' activities cover costs associated with the administration of federal R&D performance and R&D procurements from nonfederal performers by federal personnel, transfers of funds to other federal agencies for purposes related to R&D, and actual federal performance.<sup>b</sup> Higher education includes both public and private institutions as well as University Affiliated Research Centers.**Note(s):**

Because of rounding, detail may not add to total. As of volume 71 (FYs 2021–22), FFRDCs are classified as intramural R&D performers, whereas they were extramural in previous volumes; therefore, data are not directly comparable across volumes. Past years in the trend tables have been adjusted to reflect the current classification of FFRDCs. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. FY 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). See technical table A-2 for additional notes associated with the agencies listed in this table.

**Source(s):**

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2021–22.